REMARKS:

Status

Claims 1 to 27 are pending. Claims 1, 4, 12, 21, 25 and 26 are the independent

claims and have been amended. Reconsideration and further examination are respectfully

requested.

Claim Rejections

Claims 1 to 20, 26 and 27 were rejected under 35 U.S.C. § 103(a) over U.S.

Patent No. 6,275,900 (Liberty) in view of U.S. Patent No. 6,026,448 (Goldrian). Claims 21 to 25

were rejected under § 103(a) over Liberty in view of Goldrian and U.S. Patent No. 6,247,041

(Krueger).

Claims 1 to 3: Amended independent claim 1 is reproduced below:

1. A method, including steps of
sending data between a client and a server at an address agreed by
said client and said server, said address responsive to a size of said data;
wherein said steps of sending data are responsive to a request or a
response between said client and said server; and
wherein said steps of sending data are asynchronous with regard to
said request or said response.

The applied art is not seen by Applicant to disclose or to suggest the foregoing

features of claim 1, at least with respect to "sending data between a client and a server at an

address agreed by said client and said server," with "said address responsive to a size of said

data."

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In more detail, the Office Action cited col. 6, lines 14 to 38, of Liberty as teaching the feature of "sending data between a client and a server at an address agreed to by said client and said server." The cited language was the following: "communicating data between a client node and a home node (server node), generating at the client node of a plurality of nodes of the computer system data request with a real address of memory." Applicant sees no mention that this "real address of memory" is responsive to a size of the data, as now recited by claim 1.

Applicant has studied the remainder of Liberty and the rest of the applied art and does not see anything to remedy this deficiency. Accordingly, reconsideration and withdrawal are respectfully requested of the § 103(a) rejection of claim 1 and its dependent claims 2 and 3, as is allowance of those claims.

Claims 4 to 11: Amended independent claim 4 is reproduced below:

> 4. A system including
> a client and server;
> a NUMA communication link coupled to said client and server;
> a request from said client to server or a response from said server to client; and
> a data transfer between said client and server;
> wherein said data transfer has a time that is decoupled from a time of said request or response; and
> wherein said data transfer has a location that is mutually agreed between said client and server, said location responsive to a size of said data transfer.

The applied art is not seen by Applicant to disclose or to suggest the foregoing features of claim 4, at least with respect to "said data transfer [having] a location that is mutually agreed between said client and server, said location responsive to a size of said data transfer." In

particular, the applied art is not seen by Applicant to teach that the agreed upon location for the data transfer is responsive to a size of the data transfer.

In more detail, the Office Action cited col. 6, lines 14 to 38, of Liberty as teaching the feature of "said data transfer [having] a location that is mutually agreed between said client and server." The cited language was the following: "communicating data between a client node and a home node (server node), generating at the client node of a plurality of nodes of the computer system data request with a real address of memory." Applicant sees no mention that this "real address of memory" is responsive to a size of the data. Thus, Liberty is not understood to teach that the location for the data transfer is responsive to a size of the data transfer, as now recited by claim 4.

Applicant has studied the remainder of Liberty and the rest of the applied art and does not see anything to remedy this deficiency. Accordingly, reconsideration and withdrawal are respectfully requested of the § 103(a) rejection of claim 4 and its dependent claims 5 to 11, as is allowance of those claims.

Claims 12 to 20: Amended independent claim 12 is reproduced below:

12. A system including
a server, said server having a memory including a client communication region and a data transfer region, said date transfer region having buffers matched to different sized data transfers;
a remote DMA communication link coupled to said data transfer region;
said client communication region including information regarding a data transfer into or out of said data transfer region;
said data transfer being decoupled in time from said client request region.

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The applied art is not seen by Applicant to disclose or to suggest the foregoing features of claim 12, at least with respect to "said date transfer region having buffers matched to different sized data transfers."

In more detail, Liberty teaches the use of "pages, with each page including at least one data line" in its NUMA/S-COMA memory system (col. 5, lines 63 to 65). Applicant does not see any mention in Liberty of matching these pages or any other data storage or buffers to different sized data transfers. Likewise, the remainder of the applied art is seen by Applicant to be silent with respect to this feature of claim 12. Accordingly, reconsideration and withdrawal are respectfully requested of the § 103(a) rejection of claim 12 and its dependent claims 13 to 20, as is allowance of those claims.

Claims 21 to 24: Amended independent claim 21 is reproduced below:

> 21. A method including
> communicating file system requests and responses between a client
> and a file server;
> sending data between said client and said file server using a
> memory access operation at an address agreed by said client and said file
> server, wherein said address is responsive to information in said requests
> or said responses and to a size of said data.

The applied art is not seen by Applicant to disclose or to suggest the foregoing features of claim 21, at least with respect to "using a memory access operation at an address agreed by said client and said file server, wherein said address is responsive ... to a size of said data." In particular, Applicant does not see the applied art to teach that the agreed upon address is responsive to a size of the data. For at least this reason, reconsideration and withdrawal are

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respectfully requested of the § 103(a) rejection of claim 21 and its dependent claims 22 to 24, as is allowance of those claims.

Claim 25: Amended independent claim 25 is reproduced below:

> 25. A method including
> communicating database requests and responses between a client and a database server;
> sending data between said client and said database server using a memory access operation at an address agreed by said client and said database server, wherein said address is responsive to information in said requests or said responses and to a size of said data.

The applied art is not seen by Applicant to disclose or to suggest the foregoing features of claim 25, at least with respect to "using a memory access operation at an address agreed by said client and said database server, wherein said address is responsive ... to a size of said data." In particular, Applicant does not see the applied art to teach that the agreed upon address is responsive to a size of the data. For at least this reason, reconsideration and withdrawal are respectfully requested of the § 103(a) rejection of claim 25, as is allowance of that claim.

Claims 26 and 27: Amended independent claim 26 is reproduced below:

> 26. A method including
> communicating requests and responses between a client and a server;
> sending data between said client and said server using a memory access operation at an address agreed by said client and said server, wherein said address is responsive to information in said requests or said responses and to a size of said data.

The applied art is not seen by Applicant to disclose or to suggest the foregoing features of claim 26, at least with respect to "using a memory access operation at an address

agreed by said client and said server, wherein said address is responsive ... to a size of said data."
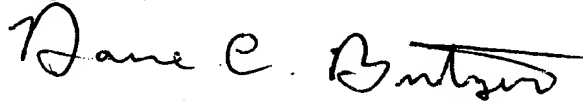
In particular, Applicant does not see the applied art to teach that the agreed upon address is responsive to a size of the data. For at least this reason, reconsideration and withdrawal are respectfully requested of the § 103(a) rejection of claim 26 and its dependent claim 27, as is allowance of those claims.

Closing

In view of the foregoing amendments and remarks, the entire application is believed to be in condition for allowance, and such action is respectfully requested at the Examiner's earliest convenience.

Applicant's undersigned attorney can be reached at (614) 486-3585. All correspondence should continue to be directed to the address indicated below.

Respectfully submitted,

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